

BRANSON WWTP

BRANSON, MO

Operation & Maintenance Manual

for

AQUASCREEN® 600 X 3400 X 6 SERIAL # ASC 04-045

> DSP 250 COMPACTOR SERIAL # DSP 04-017

> > Ву

ANDRITZ-Ruthner, Inc.

Job No.: 1353

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IMPORTANT

This manual should be read in its entirety before attempting to install, operate or repair the equipment supplied by *ANDRITZ*. At least one copy must be kept in area of equipment installation and available to operators & maintenance personnel. Failure to follow the instructions contained herein could result in invalidation of warranties or injury to personnel.

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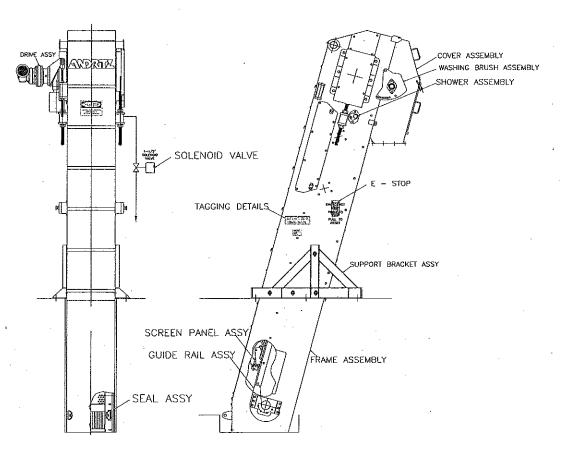


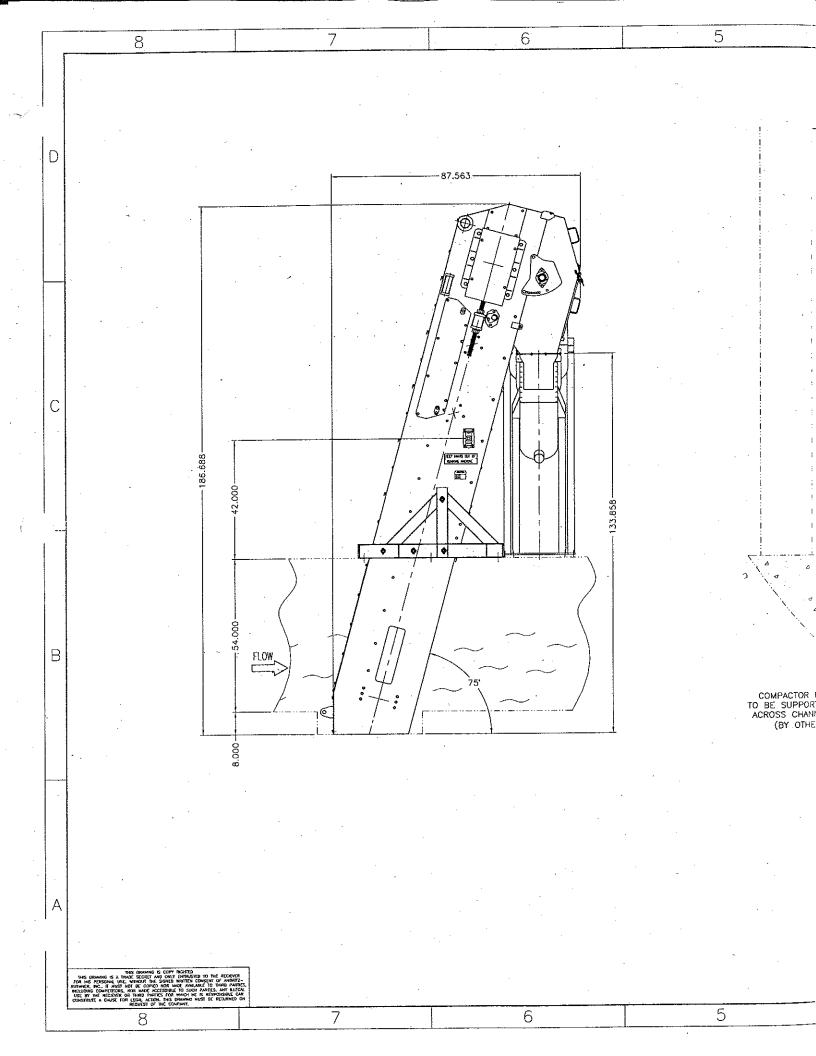
2. General Description of the Aqua-screen

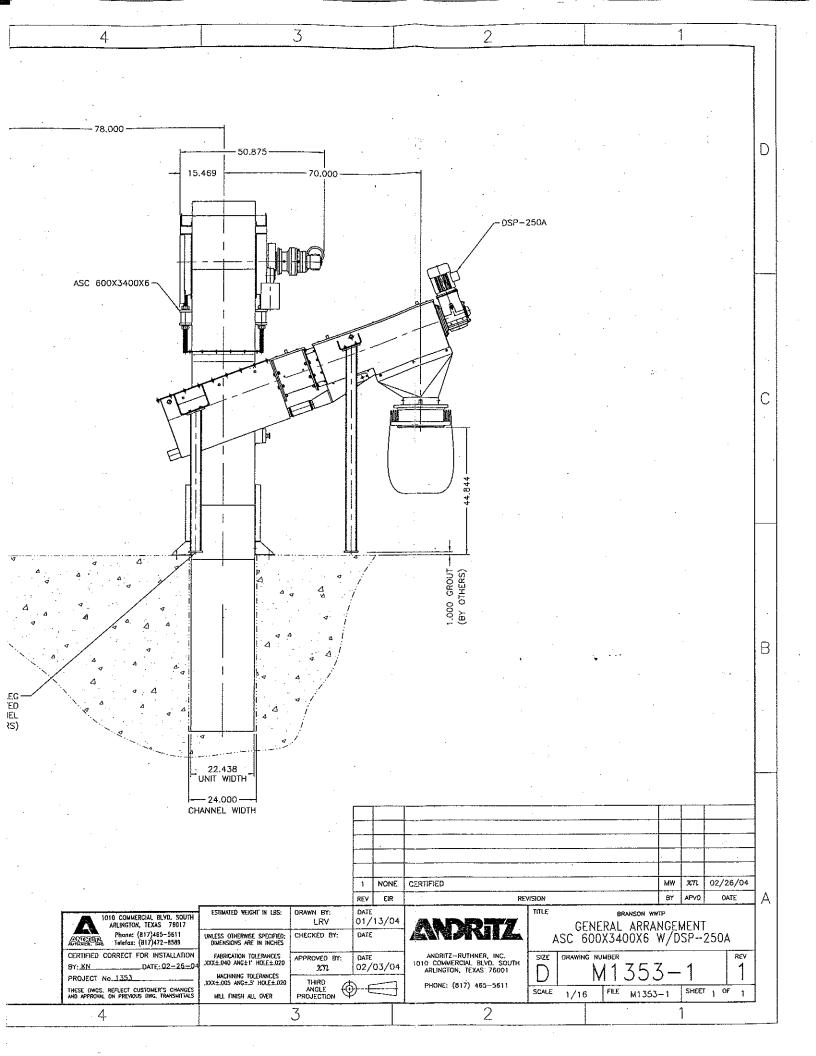
The Andritz Aqua-screen is a continuous perforated plate system designed to extract solids from all types of channels. The flow capacity is dependent upon the screen width, perforation size, the open area of the perforated panels and the upstream level in the channel. Each screen is designed to suit the prevailing hydraulic conditions and can be operated either manually, on a timer or in fully automatic mode by use of level controls.

The Andritz Aqua-screen utilizes close fitting perforated plates to remove floating and suspended solids (screenings) in the effluent flow. The panels are shaped to form steps, which are carried on heavy duty chains protected from the ingress of debris by a bottom polyester bristle sealing brush, stainless steel side plates and polyurethane seals. The captured screenings are elevated from the effluent channel on the stepped perforated plates over the top of the Aqua-screen, and ejected through a totally enclosed discharge chute. Cleaning of the continuous perforated plate is done in two stages:-

- 1. Back washing using a high pressure spray bar (or low pressure deluge).
- A rotating brush that removes any remaining debris, including fatty and fibrous material.
 The brush system is mounted on pivoting plates which are adjusted to compensate for
 wear. The tail end runner has no bearing and is made from a wear resistant material,
 requiring no maintenance. This means that maintenance is usually carried out above
 ground.







1.1 MACHINE SPECIFICATIONS DSP 250 COMPACTOR

Overall Dimensions (APPROX.)

Length: 153"

Width: 20"

Height: 24"

Weight: 1780 lbs.

Standard Materials

Trough Construction

Welded 12 ga. 316 ss.

Screw Flighting:

316 SS, ¼". flight 2.00" dia. shaft.

Drainer Section:

1.5mm thick perforated 304 SS. Peeler jets. OD connection.

Drive Unit:

2HP motor 460V, 60 Hz 3 ph flanged to shaft-mounted

FA77 gearbox, driving directly on end of shaft.

Bearings - top end:

Flanged housing: double-row spherical roller bearing.

Pressing Section:

Friction type.

1.2 RECOMMENDED SPARES

1 X BRSKF722517B bearing housing complete with 22217CCK bearing/W33

DMM22525 TROUGH LINER

Your ANDRITZ distributor can arrange for supply of ANDRITZ manufactured items.

